

SEQUENCE LISTING

<110> Glassman, Kimberly F.  
Gordon-Kamm, William J.  
Kinney, Anthony  
Lowe, Keith S.  
Nichols, Scott E.  
Stecca, Kevin L.

<120> RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION

<130> BB1449 US NA

<140>  
<141>

<160> 17

<170> Microsoft Office 97

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<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: ELVISLIVES PCR primer

<400> 1  
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<210> 2  
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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer for amplification  
of soybean Fad2-1

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<210> 3  
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<220>  
<223> Description of Artificial Sequence: PCR primer for amplification  
of soybean Fad2-1

<400> 3  
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<210> 4  
<211> 30

<212> DNA  
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 <223> Description of Artificial Sequence: PCR primer for amplification  
 of soybean Fad2-1  
  
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 of soybean Fad2-1  
  
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 <210> 6  
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 <223> Description of Artificial Sequence: pKS102 linker  
  
 <400> 6  
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 <210> 7  
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 <213> Artificial Sequence  
  
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 <223> Description of Artificial Sequence: PCR primer for amplification  
 of Cer3  
  
 <400> 7  
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 <210> 8  
 <211> 30  
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 <213> Artificial Sequence  
  
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 of Cer3  
  
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<210> 9  
 <211> 30  
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<220>  
 <223> Description of Artificial Sequence: PCR primer for amplification  
 of Cer3

<400> 9  
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<210> 10  
 <211> 30  
 <212> DNA  
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 <223> Description of Artificial Sequence: PCR primer for amplification  
 of Cer3

<400> 10  
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<210> 11  
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 <223> Description of Artificial Sequence: ELVISLIVES complementary  
 region of pKS106 and pKS124

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<210> 12  
 <211> 80  
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 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: ELVISLIVES complementary  
 region of pKS106 and pKS124

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 gagatgacca gctccggccg 80

<210> 13  
 <211> 154  
 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS133

<400> 13  
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 <223> Description of Artificial Sequence: ELVISLIVES PCR primer

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<210> 16  
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<400> 16  
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<210> 17  
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<220>  
 <223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1

<400> 17  
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<210> 18  
 <211> 32  
 <212> DNA  
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 of soybean Fad2-1, 5'-end  
  
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 <210> 19  
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 of soybean Fad2-1, 3'-end of 25 nucleotide fragment  
  
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 <220>  
 <223> Description of Artificial Sequence: PCR primer for amplification  
 of soybean Fad2-1, 3'-end 75 nucleotide fragment  
  
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 of soybean Fad2-1, 3'-end of 150 nucleotide fragment  
  
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 <210> 22  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence



<210> 25  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer for amplification  
of soybean Lea promoter 5'-end

<400> 25  
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<210> 26  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer for amplification  
of soybean Lea promoter 3'-end

<400> 26  
ttcaaagatc aattattttcc 20

<210> 27  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer for amplification  
of phaseolin terminator 5'-end

<400> 27  
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<210> 28  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: PCR primer for amplification  
of phaseolin terminator 3'-end

<400> 28  
atccctgaag tgtctcattt ta 22

<210> 29  
<211> 963  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS149

<400> 29

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gcctacgtca ccttcctcgc cggaaacggg gactatgtga aagggtgcgt tggcttggca 180
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ccccaagatc accgcaacat tctcacctcc caagggttgca ttgttagaga gattgagccc 300
gtgtaccccc cagagaatca aaccagttt gccatggcat attacgtcat caactattcc 360
aagctacgta tttgggagtt tgtggagtag agcaagatga tatacctaga cggatgatatac 420
caagtttttg acaacattga ccacttgga tcgatcctga gctgatttaa accaccgttg 480
ttgccaatgt caccaccgag caattaccca aggctcgtgg aggaagtggg cgtgccttcg 540
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ctcctgagaa ccagaccag ttcgtcatgg cctattatgt catcaattac tccaagctac 780
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ttgaaacat agaccacttg tttgatctgt gagctgattt aagcgccgc cgactcgacg 900
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ccg 963
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<210> 30

<211> 987

<212> DNA

<213> Glycine max

<400> 30

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gtcgttggct tggcaaaagg tctgagaaaa gtgaagagca tgtaccctct ggtggttgca 180
gtgctaccgc atgttcccca agatcacgc aacattctca cctcccaagg ttgcattgtt 240
agagagattg agcccgtgta cccccagag aatcaaacc cgtttgccat ggcattattac 300
gtcatcaact attccaagct acgtatttgg gagtttggg agtacagcaa gatgatatac 360
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tactttctatg cgggtgatgga ctgtttctgt gagccaactt ggggccacac taaacaatat 480
cagatcggtt actgccagca gtgccccat aagggtcagt ggcccaactc ctttggggcc 540
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cgtgacctcc ttcaaacagt ccaagtcacc cagcccaactt cctttgctga acaggatttt 660
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gccatgctgt ggcgtcacc tgagaacgtt gagcttgaca aagttaaagt ggttcactac 780
tgtgctgctg ggtctaagcc ttggaggtac actgggaagg aggagaatat ggagagagaa 840
gatatacaga tgttagtgaa aaagtgggtg gatataatg aggatgagac tttggactac 900
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<210> 31

<211> 328

<212> PRT

<213> Glycine max

<400> 31

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Ala Lys Val Ala Thr Asp His Gly Arg Ala Tyr Val Thr Phe Leu Ala  
20 25 30





<210> 32  
 <211> 1350  
 <212> DNA  
 <213> Glycine max

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 ctaacatcac caccgttggt gccaatgtca ccaccgagca attaccaag gctcgtggag 180  
 gaagtgggcg tgccttcgtg acctttcttg ctgggaacgg tgattacgta aaggggtgtcg 240  
 tgggtttggc caaaggactg agaaaggcca aaagcatgta ccctttgggtg gttgctgtgt 300  
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 agattgaacc tgtgtaccct cctgagaacc agaccaggtt cgccatggcc tattatgtca 420  
 tcaattactc caagctacgt atttgggagt tcgtggagta caagaagacg atatacctag 480  
 acggtgacat ccaagtattt ggaaacatag accacttggt tgatctgcct gataattatt 540  
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 ctctctata tttcaatgct ggcattgttg tttatgagcc taatctcgac acctaccgtg 720  
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 aaggaacaac gtctatgggt ttaatttgga tgaccttctt gtatacaaag ccacatgtga 1260  
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 cttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1350

<210> 33  
 <211> 358  
 <212> PRT  
 <213> Glycine max

<400> 33  
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 Asn Leu Phe Leu Ser Ser Tyr Phe Pro Phe Gln Ile Met Pro Pro Asn  
 20 25 30  
 Ile Thr Thr Val Val Ala Asn Val Thr Thr Glu Gln Leu Pro Lys Ala  
 35 40 45  
 Arg Gly Gly Ser Gly Arg Ala Phe Val Thr Phe Leu Ala Gly Asn Gly  
 50 55 60  
 Asp Tyr Val Lys Gly Val Val Gly Leu Ala Lys Gly Leu Arg Lys Ala  
 65 70 75 80  
 Lys Ser Met Tyr Pro Leu Val Val Ala Val Leu Pro Asp Val Pro Glu  
 85 90 95  
 Glu His Arg Glu Ile Leu Lys Ser Gln Gly Cys Ile Val Arg Glu Ile  
 100 105 110  
 Glu Pro Val Tyr Pro Pro Glu Asn Gln Thr Gln Phe Ala Met Ala Tyr  
 115 120 125

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actagaaacc	atggaaggta	ccaagatatc	aaccgcggaa	agatcgta	aatggcatgt	300
taaataaccg	tcaaacctga	tgaagagata	aagagatgaa	gacttaagtc	ataacacaaa	360
accataaaaa	acaaaaatac	aatcaaccgt	caatctgacc	aatgcatgaa	aaagctgcaa	420
tagtgagtgg	cgacacaaa	cacatgattt	tcttacaacg	gagataaaa	caaaaaata	480
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<210> 35  
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 <212> DNA  
 <213> Glycine max

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ctcaccaaac	ccaaccacgc	tctcaaaatc	aaatgttcca	tctccaaacc	ccccacggcg	180
gcgccccttc	ccaaggaagc	gccgaccacg	gagcccttcg	tgtcacgggt	cgccctccggc	240
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<210> 36  
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 <212> DNA  
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<220>  
 <223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 50 nucleotide fragment

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 Lys Lys Thr Ile Tyr Leu Asp Gly Asp Ile Gln Val Phe Gly Asn Ile  
 145 150 155 160  
 Asp His Leu Phe Asp Leu Pro Asp Asn Tyr Phe Tyr Ala Val Met Asp  
 165 170 175  
 Cys Phe Cys Glu Lys Thr Trp Ser His Thr Pro Gln Phe Gln Ile Gly  
 180 185 190  
 Tyr Cys Gln Gln Cys Pro Asp Lys Val Gln Trp Pro Ser His Phe Gly  
 195 200 205  
 Ser Lys Pro Pro Leu Tyr Phe Asn Ala Gly Met Phe Val Tyr Glu Pro  
 210 215 220  
 Asn Leu Asp Thr Tyr Arg Asp Leu Leu Gln Thr Val Gln Leu Thr Lys  
 225 230 235 240  
 Pro Thr Ser Phe Ala Glu Gln Asp Phe Leu Asn Met Tyr Phe Lys Asp  
 245 250 255  
 Lys Tyr Lys Pro Ile Pro Asn Met Tyr Asn Leu Val Leu Ala Met Leu  
 260 265 270  
 Trp Arg His Pro Glu Asn Val Glu Leu Asp Lys Val Gln Val Val His  
 275 280 285  
 Tyr Cys Ala Ala Gly Ser Lys Pro Trp Arg Phe Thr Gly Lys Glu Glu  
 290 295 300  
 Asn Met Asp Arg Glu Asp Ile Lys Met Leu Val Lys Lys Trp Trp Asp  
 305 310 315 320  
 Ile Tyr Glu Asp Glu Thr Leu Asp Tyr Asn Asn Asn Ser Val Asn Val  
 325 330 335  
 Glu Arg Phe Thr Ser Ala Leu Leu Asp Ala Gly Gly Phe Gln Phe Val  
 340 345 350  
 Pro Ala Pro Ser Ala Ala  
 355

<210> 34  
 <211> 515  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: SHH3 complementary  
 region of PHP17939

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 gtaagaaaat catgtgcttt gtgtcgccac tcactattgc agctttttca tgcattgggtc 120  
 agattgacgg ttgattgtat ttttggtttt tatggttttg tgttatgact taagtcttca 180

<400> 36

gaattcgcgg ccgcatcacc cacacaccag tg

32

[illegible]